

ABSTRACT

A vehicular air conditioner includes a reversible heat pump having an air distribution fan positioned upstream of an indoor heat exchanger, a coolant heat exchanger positioned downstream of the indoor heat exchanger, and a damper arranged adjacent to a coolant heat exchanger. An engine cooling water system is connected to the coolant heat exchanger. A subassembly is used for positioning the damper in the fully opened condition such that the coolant heat exchanger is made an air intake flow path in addition to an air flow path of an air bypass space during a cooling operation. The engine cooling water system includes a coolant bypass valve connected between a primary side flow path and a secondary side flow path for engine cooling water to bypass the coolant heat exchanger. When the damper fully opens a full quantity of the engine cooling water flows to the secondary side flow path.